TSG-RAN meeting#20 **Tdoc RP-030352**
June 3 – 6, 2003
Hämeenlinna, Finland

Agenda item:	7.1.2
Source:	Nokia
Title:	Discussion on Single Transport Format Detection
Document for:	Discussion and Decision

1. Introduction

In the last TSG RAN WG1#32 meeting the issue of single transport format was discussed, but no further actions were agreed. After the meeting further checking of the issue was done and it became obvious that there is an area where terminal behaviour is not defined.

2. Discussions

Checking the WG2 specs reveals that the terminal is given a total freedom (i.e. no requirement) for the downlink power control operation in case of single transport format detection as it is stated that quality target is not required to be maintained. This basically means that terminals are expected to have varying behaviour and performance in this particular case due to the statement in 25.331 v5.4.0 chapter 8.6.5.4:

> *"If the UTRAN configures a UE to use blind transport format detection and configures a transport channel such that single transport format detection [27] must be used to detect the TF, then it is not possible for the UE to maintain a quality target for that transport channel."*

As such the statement itself is correct as a general rule, but alternatively it could be more specific to define the cases when quality target could be actually maintained. Though also at least WG1 specs could be considered for such a new definitions/requirements as they are very much L1 related.

3. Conclusions

Following the issue there are two alternatives how to progress.

a) Suggest to avoid such a configurations from UTRAN point of view where quality target can not be maintained

Or/and

b) To define such a restrictions for the single transport format detection cases that would actually enable the terminal to maintain the quality target with reasonable effort.

Feedback on the issue from TSG RAN is invited and based on that action points should be given to relevant working groups.